

identifying a set of data blocks from the plurality of data blocks, wherein each data block of the set of data blocks is associated with a first corresponding property; and

storing the set of data blocks at a data segment.

**9.** The method of claim **8**, further comprising:

performing a compression operation on the set of data blocks at the data segment.

**10.** The method of claim **8**, further comprising:

initiating a garbage collection process, wherein identifying the plurality of data blocks stored at the one or more solid-state storage devices is in response to initiating the garbage collection process.

**11.** The method of claim **8**, wherein reading the portion of the data from each data block further comprises:

reading a plurality of top bits of data from each data block of the plurality of data blocks.

**12.** The method of claim **8**, further comprising:

generating a histogram for each data block of the plurality of data blocks based on the corresponding property of each data block.

**13.** The method of claim **8**, wherein the corresponding property for each data block of the plurality of data blocks corresponds to a language associated with the data stored at each data block of the plurality of data blocks.

**14.** The method of claim **8**, further comprising:

identifying a second set of data blocks from the plurality of data blocks, wherein each data block of the second set of data blocks is associated with a second property; and

storing the second set of data blocks at a second data segment.

**15.** A non-transitory computer readable storage medium storing instructions, which when executed, cause a processing device of a primary storage controller to:

identify a plurality of data blocks stored at one or more solid-state storage devices;

read a portion of data from each data block of the plurality of data blocks;

determine, by the processing device, a corresponding property for each data block of the plurality of data blocks based on reading the portion of the data;

identify a set of data blocks from the plurality of data blocks, wherein each data block of the set of data blocks is associated with a first corresponding property; and

store the set of data blocks at a data segment.

**16.** The non-transitory computer readable storage medium of claim **15**, wherein the processing device is further to:

perform a compression operation on the set of data blocks at the data segment.

**17.** The non-transitory computer readable storage medium of claim **15**, wherein the processing device is further to:

initiate a garbage collection process, wherein identifying the plurality of data blocks stored at the one or more solid-state storage devices is in response to initiating the garbage collection process.

**18.** The non-transitory computer readable storage medium of claim **15**, wherein to read the portion of the data from each data block, the processing device is further to:

read a plurality of top bits of data from each data block of the plurality of data blocks.

**19.** The non-transitory computer readable storage medium of claim **15**, wherein the processing device is further to:

generate a histogram for each data block of the plurality of data blocks based on the corresponding property of each data block.

**20.** The non-transitory computer readable storage medium of claim **15**, wherein the corresponding property for each data block of the plurality of data blocks corresponds to a language associated with the data stored at each data block of the plurality of data blocks.

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